

TASK ORDER (TO)

GSQ0017AJ0010

Rapid Advanced Technical Support (RATS)

in support of:

Naval Air Warfare Center Aircraft Division (NAWCAD)



Issued to:

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Issued by:

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**General Services Administration (GSA) One Acquisition Solution for Integrated Services (OASIS)
Small Business (SB) Multiple Award (MA) Indefinite Delivery/Indefinite Quantity (IDIQ) – Pool 1,
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C.1 BACKGROUND

Naval Air Warfare Center Aircraft Division (NAWCAD) is the principle for Research, Development, Acquisition, Test, and Evaluation (RDAT&E) and fleet support activity for manned and unmanned naval aircraft for the United States (U.S.) Navy and Department of Defense (DoD). This includes air vehicles, propulsion systems, avionics, mission systems, human systems, aircraft launch and recovery equipment, landing systems, air traffic control, communications, ship/shore/air operations, and training systems. NAWCAD provides support, as needed, to other naval systems commands, other DoD activities, other federal agencies, and coalition forces in response to national security objectives.

The Rapid Capability Engineering and Integration Department (AIR-4.11) is a subordinate of NAWCAD and provides integrated and interoperable quality products and maintains a close working relationship with the warfighter. AIR-4.11 also provides the personnel, facilities, and processes required to design, develop, integrate, install, and modernize shipboard, airborne, and shore based platforms for Command, Control, Communications, Computers, and Combat Systems, Intelligence, Surveillance, and Reconnaissance (C5ISR), Radar, Command/Operation Centers, Intelligence, and Identification systems for U.S. Navy, DoD, and other Government agencies. Non-U.S. Navy tasking will support technology development to provide U.S. Navy equities and reduce future U.S. Navy program costs. AIR-4.11 requirements follow DoD processes in support of Rapid Response/Rapid Prototyping/Lead Capabilities Integrator to develop and deliver products. AIR-4.11 supports the Naval Air Systems Command (NAVAIR) Works concept interfacing with other NAVAIR organizations to team expertise and skills to develop more complete customer solutions.

NAWCAD, Advanced Capability and Rapid Transition Division (NAWCAD-4.11.6) is a subordinate of AIR-4.11 and provides technical personnel, processes, coordination and facilities to support the rapid insertion/technology transition of advanced technologies (systems, sensors, and weapons/weapon systems) to support programs of record, and direct insertion of technology to support urgent fleet needs. NAWCAD-4.11.6 performs rapid technology and fleet insertion programs for: aviation programs, the insertion of aviation technology in land and/or sea based system across the DoD and other government agencies. Additionally, NAWCAD-4.11.6 coordinates with key technology development organizations such as the NAVAIR program offices, Naval Aviation Chief Technology Officer (CTO); Office of Naval Research (ONR), Defense Advanced Research Project Agency (DARPA), other services, and other government agencies to identify and execute programs in bringing key capabilities to necessary technology readiness levels in order to facilitate technology transition. NAWCAD-4.11.6 works across all levels of classification to support this effort.

C.1.1 PURPOSE

The purpose of this TO is to provide administrative, engineering, analysis, and other professional services required to support NAWCAD-4.11.6 various projects and programs associated with the development of Intelligence, Surveillance, and Recognizance (ISR), unmanned capabilities, as well as other advanced conceptual systems.

C.2 SCOPE

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The scope of this TO will include all associated tasks required to support NAWCAD-4.11.6 various projects and programs associated with the development of ISR, unmanned capabilities, as well as other advanced conceptual systems. Projects span the breadth of capabilities from aerial platforms, software, advanced sensors, structural materials, and the overall Government lead integration of subsystem components into a fully functional system. The rapid nature of the development, implementation, and demonstration of systems requires dedicated individuals who are capable of adapting to evolving execution activities. The contractor shall be responsible for assisting in developing detailed Government cost estimates, project plans, risk management, integrated master schedules, acquisition packages, execution reports, as well as other items associated with the overall project management and business operation competences within NAWCAD-4.11.6.

The contractor shall perform work on-site at the Government's locations at Patuxent River, Maryland (MD) and Saint (St.) Inigoes, MD. The contractor may be occasionally required to travel to Continental United States (CONUS) and Outside the Continental United States (OCONUS) locations (such locations may include but are not limited to; Colombia, Djibouti, Philippines, Germany, and Tunisia).

C.3 CURRENT ENVIRONMENT

NAWCAD-4.11.6 was established in October 2014 by combining three previously-separate divisions: Special Projects/Rapid Response Division (4.5X), Advanced Concepts Division (4.12.7), and NAWCAD-4.11.6. NAWCAD-4.11.6 acts as the technology incubator and capability development division for AIR-4.11, NAVAIR, and other Government entities by rapidly leveraging advanced concepts and systems in order to realize innovative solutions. NAWCAD-4.11.6 also collaborates throughout the AIR-4.11 to ensure emerging technology can be expeditiously transitioned to larger integration projects as part of cost efficiency and speed to the fleet initiatives. NAWCAD-4.11.6 personnel are proficient and accomplished in identifying new technologies, engineering rapid solutions to meet warfighter needs, and rapidly transitioning capabilities meeting cost, schedule, and performance guidelines.

NAWCAD-4.11.6 customers operate across multiple environments utilizing a variety of conventional (e.g., Army and Navy) and non-conventional (e.g., SOCOM) forces. Special purpose hardware and services are necessary to meet rapidly evolving threats and needs associated within these operational environments. To meet these needs, a superior level of subject matter expertise, technological developments, and material integration capabilities are provided. However, fiscal accountability, audit readiness, material accountability, as well as the need to provide more direct Government oversight and responsibility of technical efforts has necessitated a change in approach. In response, NAWCAD-4.11.6 is undergoing changes with respect to business operating structure, role within the AIR-4.11, and innovation focus within the overall DoD. These changes are leading to an alteration in processes and methodologies employed to maintain the rapid response nature of the organization while embracing new opportunities. This contract will be leveraged to support NAWCAD-4.11.6 in making these changes while preserving the technical prowess of the NAWCAD-4.11.6 in responding to ongoing customer requirements.

Due to the nature of the changes being made, NAWCAD-4.11.6 will be in a state of growth over the course of this contract. NAWCAD-4.11.6 is focused on aligning processes to AIR-4.11 while

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considering lessons learned from 4.5X, 4.12.7, and the existing department infrastructure. By gaining operational efficiencies and establishing a larger footprint across the AIR-4.11 and NAWAIR, NAWCAD-4.11.6 anticipates growth in the coming years with regards to dollars received, sponsors supported, resources utilized, and quantities of systems and subsystems impacted. Areas such as resource management (e.g., facilities, contracts, etc.) will be altered over time to provide the best capabilities possible. Also, the current 15 to 20 projects within the NAWCAD-4.11.6 will grow in complexity as the level of engagement within the AIR-4.11 is modified. This will require updates in the approach utilized in meeting both tactical requirements and strategic planning support. Additionally, the efforts undertaken within this requirement will be in support of both business operations for the NAWCAD-4.11.6 as well as on individual projects associated with directly supporting NAWCAD-4.11.6 customers. As such, it is anticipated that workload will regularly shift from NAWCAD-4.11.6 support, to project-oriented tasking, and back to NAWCAD-4.11.6 support.

Finally, NAWCAD-4.11.6 employs a variety of program managers, engineers, scientists, technicians, and business professionals. While the individual needs of these personnel vary based on their tasking, the overall objective to support the warfighter is paramount. Linkage between project execution and the business operations of NAWCAD-4.11.6 requires a level of foresight and planning on the part of the contractor. It will also require a regular level of dialogue between the NAWCAD-4.11.6 leadership and the contractor to ensure that individual projects are in alignment with expected performance.

C.4 OBJECTIVE

The TO objective is for NAWCAD-4.11.6 to support the warfighter and become the premier provider of rapid insertion/technology transition of advanced technologies (e.g., systems, sensors, and weapons/weapon systems) to support their clients, and direct insertion of technology to support urgent fleet needs.

C.5 TASKS

The following describes the services required for each Task. The contractor shall provide products and services in a timely and cost effective manner. The following tasks in support of this TO are detailed below:

- a. Task 1: Provide Task Order Project Management
- b. Task 2: Transition-In
- c. Task 3: Transition-Out
- d. Task 4: NAWCAD-4.11.6 Project Controls Support
- e. Task 5: Administrative Support
- f. Task 6: Contract Management Support
- g. Task 7: Hardware and Software Procurement Support
- h. Task 8: Technical Support
- i. Task 9: Systems Engineering Support

C.5.1 TASK 1 – PROVIDE TASK ORDER PROJECT MANAGEMENT

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The contractor shall provide project management support under this TO. This includes the management and oversight of all activities performed by contractor personnel, including subcontractors, to satisfy the requirements identified in this Statement of Work (SOW). The contractor shall identify a Project Manager (PM) by name that shall provide management, direction, administration, quality assurance, and leadership of the execution of this TO.

C.5.1.1 SUBTASK 1 – ACCOUNTING FOR CONTRACTOR MANPOWER REPORTING

The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the Department of the Navy (DoN) via a secure data collection site. The contractor is required to completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>.

Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year.

Contractors may use Extensible Markup Language (XML) data transfer to the database server or fill in the fields on the website. The XML direct transfer is a format for transferring files from a contractor's systems to the secure web site without the need for separate data entries for each required data element at the website. The specific formats for the XML direct transfer may be downloaded from the web.

C.5.1.2 SUBTASK 2 – COORDINATE A PROJECT KICK-OFF MEETING

The contractor shall schedule, coordinate, and host a Project Kick-Off Meeting at the location approved by the Government (Section F, Deliverable 02). The meeting will provide an introduction between the contractor personnel and Government personnel who will be involved with the TO. The meeting will provide the opportunity to discuss technical, management, and security issues, and travel authorization and reporting procedures. At a minimum, the attendees shall include Key contractor Personnel, representatives from the directorates, other relevant Government personnel, and the FEDSIM Contracting Officer's Representative (COR).

At least three days prior to the Kick-Off Meeting, the contractor shall provide a Kick-Off Meeting Agenda (Section F, Deliverable 01) for review and approval by the FEDSIM COR and the Technical Point of Contact (TPOC) prior to finalizing. The agenda shall include, at a minimum, the following topics/deliverables:

- a. Points of contact (POCs) for all parties
- b. Draft Project Management Plan (PMP) (Section F, Deliverable 06) and discussion including schedule, tasks, etc.
- c. Personnel discussion (i.e., roles and responsibilities and lines of communication between contractor and Government)
- d. Staffing Plan and status
- e. Updated Transition-In Plan (Section F, Deliverable 10) and discussion

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- f. Security discussion and requirements (i.e., building access, badges, Common Access Cards (CACs))
- g. Invoicing considerations

The Government will provide the contractor with the number of Government participants for the Kick-Off Meeting and the contractor shall provide sufficient copies of the presentation for all present.

The contractor shall draft and provide a Kick-Off Meeting Minutes Report (Section F, Deliverable 05) documenting the Kick-Off Meeting discussion and capturing any action items no later than five working days post meeting. Action items shall be completed as identified during the Kick-Off Meeting.

C.5.1.3 SUBTASK 3 – PREPARE A MONTHLY STATUS REPORT (MSR)

The contractor shall develop and provide an MSR (Section J, Attachment F) (Section F, Deliverable 03). The MSR shall include the following:

- a. Activities during reporting period, by task (include on-going activities, new activities, and activities completed, and progress to date on all above mentioned activities). Each section shall start with a brief description of the task.
- b. Problems and corrective actions taken. Also include issues or concerns and proposed resolutions to address them.
- c. Personnel gains, losses, and status (security clearance, etc.).
- d. Government actions required.
- e. Schedule (show major tasks, milestones, and deliverables; planned and actual start and completion dates for each).
- f. Summary of trips taken, conferences attended, etc. (attach Trip Reports to the MSR for reporting period).
- g. Accumulated invoiced cost for each CLIN up to the previous month.
- h. Projected cost of each CLIN for the current month.

C.5.1.4 SUBTASK 4 – CONVENE MONTHLY STATUS MEETINGS

The PM shall convene a Monthly Status Meeting with the TPOC, FEDSIM COR, and other Government stakeholders, as requested (Section F, Deliverable 04). The purpose of this meeting is to ensure all stakeholders are informed of the monthly activities and MSR, provide opportunities to identify other activities and establish priorities, and coordinate resolution of identified problems or opportunities. The contractor PM shall provide minutes of these meetings, including attendance, issues discussed, decisions made, and action items assigned, to the FEDSIM COR within five workdays following the meeting (Section F, Deliverable 05)

C.5.1.5 SUBTASK 5 – PREPARE A PROJECT MANAGEMENT PLAN (PMP)

The contractor shall document all support requirements in a PMP. The contractor shall provide the Government with a draft PMP (Section F, Deliverable 06) on which the Government will make comments. The final PMP (Section F, Deliverable 07) shall incorporate the Government's comments.

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The PMP shall:

- a. Describe the proposed management approach.
- b. Contain detailed Standard Operating Procedures (SOPs) for all tasks.
- c. Include milestones, tasks, and subtasks required in this TO.
- d. Provide for an overall Work Breakdown Structure (WBS) with a minimum of three levels and associated responsibilities and partnerships between Government organizations.
- e. Describe in detail the contractor's approach to risk management under this TO.
- f. Describe in detail the contractor's approach to communications, including processes, procedures, communication approach, and other rules of engagement between the contractor and the Government.
- g. Include the contractor's Quality Control Plan (QCP).

C.5.1.6 SUBTASK 6 – UPDATE THE PROJECT MANAGEMENT PLAN (PMP)

The PMP is an evolutionary document that shall be updated annually at a minimum (Section F, Deliverable 08). The contractor shall work from the latest Government-approved version of the PMP.

C.5.1.7 SUBTASK 7 – PREPARE TRIP REPORTS

The Government will identify the need for a Trip Report when the request for travel is submitted (Section F, Deliverable 09). The contractor shall keep a summary of all long-distance travel including, but not limited to, the name of the employee, location of travel, duration of trip, and point of contact (POC) at travel location. Trip reports shall also contain Government approval authority, total cost of the trip, a detailed description of the purpose of the trip, and any knowledge gained. At a minimum, trip reports shall be prepared with the information provided in (Section J, attachment G).

C.5.2 TASK 2 - TRANSITION-IN

The contractor shall update the draft Transition-In Plan (Section F, Deliverable 10) provided with its proposal and provide a final Transition-In Plan as required in Section F (Section F, Deliverable 11). The contractor shall ensure that there will be minimum service disruption to vital Government business and no service degradation during and after transition. The contractor shall implement its Draft Transition-In Plan no later than (NLT) 10 calendar days after award, and all transition activities shall be completed 30 calendar days after approval of the final Transition-In Plan (Section F, Deliverable 11).

C.5.3 TASK 3 - TRANSITION-OUT

The contractor shall provide Transition-Out support when required by the Government. The Transition-Out Plan shall facilitate the accomplishment of a seamless transition from the incumbent to an incoming contractor/Government personnel at the expiration of the TO. The contractor shall provide a draft Transition-Out Plan within six months of Project Start (PS) (Section F, Deliverable 12). The Government will work with the contractor to finalize the Transition-Out Plan in accordance with Section E (Section F, Deliverable 13). At a minimum, this Plan shall be reviewed and updated on an annual basis (Section F, Deliverable 14).

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Additionally, the Transition-Out Plan shall be reviewed and updated quarterly during the final Option Period (Section F, Deliverable 14).

In the Transition-Out Plan, the contractor shall identify how it will coordinate with the incoming contractor and/or Government personnel to transfer knowledge regarding the following:

- a. Project management processes
- b. Points of contact
- c. Location of technical and project management documentation
- d. Status of ongoing technical initiatives
- e. Appropriate contractor to contractor coordination to ensure a seamless transition
- f. Transition of Key Personnel
- g. Schedules and milestones
- h. Actions required of the Government

The contractor shall also establish and maintain effective communication with the incoming contractor/Government personnel for the period of the transition via weekly status meetings or as often as necessary to ensure a seamless transition-out.

The contractor shall implement its Transition-Out Plan no later than (NLT) 90 calendar days prior to expiration of the TO.

C.5.4 TASK 4 - NAWCAD-4.11.6 PROJECT CONTROLS SUPPORT

The contractor shall support project controls requirements on projects and programs supported by NAWCAD-4.11.6. Such services include but are not limited to:

- a. The contractor shall support the assessment of key Government projects and programs related to the NAWCAD-4.11.6 business areas to determine long-term DoD acquisition requirements, funding status, and technical and resources requirements to assist with the development and execution of the NAWCAD-4.11.6 five-year tactical plan. The contractor shall interface with Government project, program and technical personnel to acquire or gather key information required to develop strategic plans.
- b. The contractor shall provide information relating to staffing (government and contractor) and facility needs to include, but not limited to, current manpower levels, future manpower needs, current facilities usage, future facilities needs, and Information Technology (IT) needs. The contractor shall maintain floor plans of all division buildings and develop the documentation required to support military construction or minor construction initiatives.
- c. The contractor shall provide support to the development and execution of the overall NAWCAD-4.11.6 operations budget. The contractor shall support the preparation of funding data for review, prepare obligation phasing plans, prepare funding documents, follow funding documents from origination to expenditure and recommend improvements to the budget execution process.
- d. The contractor shall assist in the development and execution of the NAWCAD-4.11.6 project controls. The contractor shall support development and maintenance of all Standard Operating Procedures and processes. The contractor shall maintain and

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administer the NAWCAD-4.11.6 cost estimating tool used to categorize a project's size determining the types of documentation required for the projects.

- e. The contractor shall conduct analysis of performance metrics established by NAWCAD-4.11.6 directives and provided by division projects and initiatives, and provide overall review and assessment. The review shall include, but not be limited to, performance trends, inventory control, maintenance turnaround time, and customer satisfaction.
- f. The contractor shall provide assistance with developing and implementing marketing programs. This shall include, but is not limited to, developing a marketing plan to attract new business, developing, updating, soliciting, and analyzing sponsor/end-user satisfaction surveys, conducting marketing skills training, and participating in conferences.
- g. The contractor shall receive, process, monitor, and execute incoming and outgoing funding, appropriation type, comptroller acceptance, N-ERP and Project Tracking System (PTS) Web set-up, spend plans, expenditure and reconciliation tracking, and final billing.
- h. The contractor shall provide support to the development of WBS elements and network activities and creation of Purchase Requisitions and obligations of funds in PTS Web and/or N-ERP.
- i. The contractor shall provide responses to Division data calls.

C.5.5 TASK 5 - ADMINISTRATIVE SUPPORT

The contractor shall provide administrative support for NAWCAD-4.11.6 and NAWCAD-4.11.6 projects and programs. Such services include but are not limited to:

- a. The contractor shall provide reception personnel at the NAWCAD-4.11.6 buildings in Patuxent River, MD and St. Inigoes, MD. Route telephone calls, track division visitors, and ensure that mandatory Government training records are maintained.
- b. The contractor shall develop minutes for meetings at the division, branch, and project levels as needed.
- c. The contractor shall provide support to Division travel requirements. The contractor shall track/route the NAWCAD-4.11.6 Government personnel travel arrangements, order requests and receipts, submit and track travel reimbursement claims utilizing the Government travel system. This includes, but is not limited to; ensuring Government personnel are provided proper notification to have appropriate training and other associated requirements prior to issuance of orders.
- d. The contractor shall provide specialized training in support of, but not limited to, project management, acquisition, cost management, business rules/processes, software applications, contractor applications, NAVAIR applications and other topics deemed appropriate.
- e. The contractor shall provide graphics and documentation support. This support includes the development and review of briefings, technical reports and drawings, system manuals, proposals, display materials, brochures, web development, framing of photos, and electronic publishing. The contractor will be required to be able to leverage the most current version of software programs, such as but not limited to: Corel Draw, PhotoShop,

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Word, Power Point, Access, Excel, Adobe Premiere, Macro Media Director, AutoCAD and other similar programs as needed.

- f. The contractor shall coordinate NAWCAD-4.11.6 compliance with information technology initiatives such as the Navy Marine Corps Intranet, connectivity to the Research Development Test and Evaluation local area network.
- g. The contractor shall provide business application support for NAWCAD-4.11.6 as needed. Application support to include system identification, design, development, and training.
- h. The contractor shall interface with Government security systems in support of the Division as needed. This support includes, but it not limited to preparing outgoing visit request and inputting incoming visit requests into the Government systems.
- i. The contractor shall process both classified and unclassified correspondence and naval messages. The contractor shall route the correspondence to the appropriate personnel.
- j. The contractor shall monitor NAWCAD-4.11.6 Government-issued cellular telephone and pager service through coordination with the Government to include set-up and termination of cellular accounts, purchase of cellular phones and accessories, and coordinating monthly verification and validation report of cellular activity.
- k. The contractor shall coordinate NAWCAD-4.11.6 and contractor office moves, including telephone lines, computer connections, etc.
- l. The contractor shall support the dissemination of NAWCAD-4.11.6 communications. Maintain the NAWCAD-4.11.6 Community of Interest (COI) information system, and the NAWCAD-4.11.6 SharePoint site. The contractor shall provide note taking and scheduling support as needed for NAWCAD-4.11.6 staff meetings, NAWCAD-4.11.6 all-hands meetings, branch meetings, etc.
- m. The contractor shall also provide Government-site IT support for contractors and roughly 30 Government employees within NAWCAD 4.11.6 (e.g. coordination with AIR-4.11 Navy Marine Corps Intranet (NMCI) points of contact, NMCI asset management, and helpdesk ticket submittal/tracking).

C.5.6 TASK 6 - CONTRACT MANAGEMENT SUPPORT

The contractor shall provide contract management support services to NAWCAD-4.11.6.

Such services include but are not limited to:

- a. The contractor shall review deliverables from all NAWCAD-4.11.6 contracts (both hard and electronic) for accuracy, and process for routing to the appropriate personnel for review and approval using the Government systems.
- b. The contractor shall review and validate contract expenditure data from all NAWCAD-4.11.6 contracts, to include weekly expenditure reports and periodic invoices. The contractor shall maintain contract data within the NAWCAD-4.11.6 database. The contractor shall provide financial management and analysis for budget projections, and funding appropriation analysis.

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- c. The contractor shall review and analyze contract-related data. Utilize the NAWCAD-4.11.6 project's status reports to generate recommendations on the overall health of each NAWCAD-4.11.6 contract.
- d. The contractor shall analyze contract financial reports and vouchers, track contract expenditures, and reconcile contract close-out reports.
- e. The contractor shall assist in developing service contract packages to track the status of contract actions, and prepare funding request recommendations for contract actions, as required, in support of NAWCAD-4.11.6 specific and branch specific service contract actions.
- f. The contractor shall provide up to date information on current contract policies and recommendations on how they relate to contract solicitation package development.
- g. The contractor shall provide and forecast both ceiling needs and availability based on existing and projected project needs.

C.5.7 TASK 7 - HARDWARE AND SOFTWARE PROCUREMENT SUPPORT

The contractor shall support the procurement of hardware and software on NAWCAD-4.11.6 projects and programs. Such services include but are not limited to:

- a. The contractor shall prepare and draft documentation per prescribed DoD, Command and Contracting Activity formats and standards for procurement of hardware and software (large and small purchase).
- b. The contractor shall maintain a current list of required hardware and software that are to be procured on NAWCAD-4.11.6 projects and provide support in the preparation of procurement documentation, including any documents required to complete a Purchase Request.
- c. The contractor shall provide monitoring and tracking of hardware and software during activities in the acquisition process (from procurement planning, receipt, and bar coding of material/equipment, to delivery of the final product to the Government) both within N-ERP and NAWCAD-4.11.6 tracking tools. The contractor shall interface with Government technical personnel and with vendors regarding procurement and delivery of hardware and software required to support the Division's programs.

C.5.8 TASK 8 - TECHNICAL SUPPORT

The contractor shall provide technical support to NAWCAD-4.11.6 projects and programs as required. Such services include but are not limited to:

- a. The contractor shall provide IA technical support to help ensure the project or program appropriately plans for and implements IA requirements throughout project life-cycles. The contractor shall assist in development of IA documentation including appropriate system security authorization agreements, a Clinger-Cohen compliant IA strategy, IA implementation plans and other IA acquisition documents required by projects.
- b. The contractor shall monitor and track the status of various technical documents required for the integration and delivery of unmanned system capabilities. Elements of this task include but are not limited to scheduled delivery of integration and interface documents.

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- c. The contractor shall perform technical project support analysis of specified communications systems/subsystems and assess the principle factors impacting the supportability of the system throughout the entire product life-cycle.
- d. The contractor shall perform technical and management services to support the fielding and sustainment of managed systems. The contractor shall contribute to the maintenance and update of program related acquisition, production, and life-cycle documents.
- e. The contractor shall provide technical support to NAWCAD-4.11.6 projects and programs to upgrade and expand current configurations, build and modernize communication towers and telecom sites, and build and modernize infrastructure, surveillance coverage, and communication systems.
- f. The contractor shall provide engineering, technical, life-cycle and In-Service Engineering Activity (ISEA) support on NAWCAD-4.11.6 projects and programs.

C.5.9 TASK 9 - SYSTEMS ENGINEERING SUPPORT

The contractor shall provide systems engineering support to NAWCAD projects and programs as required. Such services include but are not limited to:

- a. The contractor shall conduct systems engineering analysis for use in developing and/or upgrading existing communications and information systems and for the identification of new capability developments and program identification. These assessments shall be reviewed, by the Government, as background information in the selection of replacement systems and/or augmentation/upgrade of existing field systems to meet mission and operational requirements.
- b. The contractor shall explore emerging and next generation technologies that can replace existing platform and technologies to meet new/existing requirements. Types of efforts would include but are not limited to defining system design requirements, performing market surveys, integration planning and analysis of systems components.
- c. The contractor shall provide inputs to verification and/or definition of systems design requirements to support the development of systems that are economically producible, operationally suitable, and field supportable.
- d. The contractor shall provide support to specialized studies and evaluations, which will be used to provide assessment of current communications and information systems architecture and make recommendations for new technology.
- e. The contractor shall plan continual system engineering throughout the design, development, procurement, fabrication, interface, integration, and implementation of systems.
- f. The contractor shall assist with conducting engineering reviews (design, test, etc.) as appropriate for key Division programs.
- g. The contractor shall attend and support scheduled and ad-hoc information interchange meetings (technical, interface, integration, test planning, etc.) to support the engineering efforts of NAWCAD-4.11.6 projects.
- h. The contractor shall assist in developing NAWCAD-4.11.6 Systems Engineering Standards in line with NAVAIR's systems engineering processes.